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10/582,360	06/09/2006	Akihiko Sugiyama	040447-0283	1660

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EXAMINER

BORSETTI, GREG

ART UNIT	PAPER NUMBER
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2626

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/582,360	Applicant(s) SUGIYAMA ET AL.	
	Examiner GREG BORSETTI	Art Unit 2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 December 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 60-77 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 60-77 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/10/2010</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Claims 60-77 are pending.
2. Claims 60, 67, 73, 74, and 75 have been amended.
3. Claims 76-77 have been added.
4. The claim objections to claims 60, 67, and 73-75 have been withdrawn in view of the amendments received 12/3/2010.
5. The 35 USC 101 rejection of claim 73 has been withdrawn in view of the amendments received 12/3/2010.

Response to Arguments

6. Applicant argues "However, Papineni does not disclose or suggest the operation of classifying a sentence in inputted text as one of a plurality of types of sentences, selecting a category of additional information related to the type of sentence and adding the additional information to the inputted text. Particularly, the system of Papineni responds to inputted text, it but does not add any additional information to the inputted text. For example, if the sentence is a question sentence "Whether...is questionable", the additional information is "Please respond to...", as described on page 10, lines 11 to 23 of the present specification. In Papineni, the computer responses to the human input (e.g., Please Say Yes or No) are not added to any inputted text, but rather are provided to the human so that the human can respond to the computer, in order to complete a stock transaction." (Remarks, Page 9, ¶ 3-4) The Examiner disagrees. Column 15 of

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Papieni teaches the above limitations. The human inputs "I want to buy one hundred shares" which is a sentence classified as a declaration. The computer further gathers information related to the fund (fund name from context) and restates it as a declaration back to the person and, in addition, adds a confirmation (an additional category) which is related to the type of sentence (declaration). Therefore, the Examiner disagrees that the system of Papineni does not add any additional information to the inputted text. It not only adds a confirmation in response to the declaration, but it also adds information from contextual information grabbed from input. Thus, the argument is not persuasive.

Information Disclosure Statement

7. The Information Disclosure Statement (IDS) submitted on 8/10/2010 is in compliance with the provisions of 37 CFR 1.97.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 60, 67, and 73-74 are rejected under 35 U.S.C. 102(e) as being anticipated by Papineni et al. (US Patent #6246981)

As per claim 60, Papineni teaches the method comprising receiving inputted text with an information processing device, the inputted text including a sentence (column 1, lines 22-30, ... *The input and output could be either text-oriented or speech-oriented. Speech-oriented systems have a speech recognition subsystem (speech-to-text system) and a speech synthesis subsystem (text-to-speech system)*... column 15, lines 5-67 further teach input sentences.); analyzing the inputted sentence with an information analysis device to determine information to be added comprising the steps of (column 3, lines 8-19, ... *A system for conversant interaction includes a recognizer for receiving and processing input information and outputting a recognized representation of the input information. A dialog manager is coupled to the recognizer for receiving the recognized representation of the input information, the dialog manager having task-oriented forms for associating user input information therewith, the dialog manager being capable of selecting an applicable form from the task-oriented forms responsive to the input information...*):

classifying the inputted sentence as one of a plurality of types of sentences, the plurality of types of sentences including a question and an explanation (Papineni, column 15, the example shows input questions and explanations, see ... *how about the vanguard index...* (question), and ... *i want to buy one hundred shares...* (explanation).);

selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence (Papineni, column 15, shows selection of additional information related to the type of sentence

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through a confirmation, ...*confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...*); and

selecting additional information in the selected category (Papineni, column 15, selects additional information by providing specific confirmations of the index or fund, ...*confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...* The selected additional information is the specific amount and fund for the category of additional information (confirmation).); and

adding the additional information to the inputted text with a change processing device; and outputting the inputted text to which the information is added with an information reproducing device (Papineni, column 15, selects additional information by providing specific confirmations of the index or fund, ...*confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...* The selected additional information is the specific amount and fund for the category of additional information (confirmation). This has been added to the fund name which is taken from the context taken from the inputted text and it output to the user for confirmation.).

Claims 67 and 73-74 are rejected for the same reasons as claim 60 above for having similar limitations and scope. Papineni further provides system and computer readable medium type embodiments (see Papineni columns 5-6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 60-64, 66-70, 72-75 are rejected under 35 U.S.C. 103(a) as being unpatentable by Gabai et al. (US Patent #6773344 hereinafter Gabai) in view of Papineni et al. (US Patent #6246981)

As per claim 60, Gabai teaches the method comprising receiving inputted text with an information processing device (column 43, lines 20-34, the toy can read text for translation or speech synthesis.);

analyzing the inputted text with an information analysis device, the inputted text including a sentence to determine information to be added comprising the steps of (Gabai, column 43, lines 3-19, ...*It is preferred, in such cases, that a toy not merely translate but combine its translations with other types of content that is appropriate to the given situation...* Gabai teaches the ability to read local or ancient languages, column 43, lines 20-34 where the scanner is an information analysis unit. Information to be added is appropriate to a given situation. Column 43, lines 35-43 teaches that the input may be full sentences):

adding the additional information to the inputted text with a change processing device (Gabai, column 43, lines 3-19, ...*It is preferred, in such cases, that a toy not merely translate but combine its translations with other types of content that is appropriate to the given situation...* Furthermore, column 43, lines 35-50 gives examples, one of which is that the user inputs a menu and then toy subsequently explains the cultural significance of the dishes. Figs .14 and 70 show that the output can be processed an generated from the internal toy process or an external computer/server depending on the complexity of the input/operation.);

outputting the inputted text to which the information is added with an information reproducing device (Gabai, column 53, lines 26-36, ...*Their response includes, but is not limited to sound (including voice)... Fig. 66, 8085).*

Gabai fails to specifically teach classifying the inputted sentence as one of a plurality of types of sentences, the plurality of types of sentences including a question and an explanation; selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence; and selecting additional information in the selected category.

However, Papineni teaches classifying the inputted sentence as one of a plurality of types of sentences, the plurality of types of sentences including a question and an explanation (Papineni, column 15, the example shows input questions and explanations, see ...*how about the vanguard index...* (question), and ...*i want to buy one hundred shares...* (explanation).);

selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence (Papineni, column 15, shows selection of additional information related to the type of sentence through a confirmation, *...confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...*); and

selecting additional information in the selected category (Papineni selects additional information by providing specific confirmations of the index or fund, *...confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...* The selected additional information is the specific amount and fund for the category of additional information (confirmation).).

Gabai and Papineni are analogous art because both deal with dialog interaction between a human and machine. Therefore, It would have been obvious to someone of ordinary skill in the art at the time of the invention to apply the confirmations/clarifications of Papineni with the base process of dialog interaction in Gabai because the result would have been predictable in providing a machine/user dialog interaction where the machine and user have a mutual understanding of the current dialog state. Therefore, it would have been obvious to someone of ordinary skill in the art at the time of the invention to combine Papineni with Gabai.

As per claim 61, claim 60 is incorporated and Gabai teaches wherein the inputted text is translation text that is translated from a first language to a second language with an automatic interpretation device (Gabai, column 43, lines 3-19, Figs. 58 A-B teach that the toy interprets the scanned information in a language not native to the user for the user's understanding.).

As per claim 62, claim 60 is incorporated and Gabai teaches wherein a voice synthesis device converts the inputted text to which the information is added to a voice signal and outputs the voice signal (Gabai, column 20, lines 14-36, ...*transfer information to the user through sound (possibly using text-to-speech technology)*...).

As per claim 63, claim 60 is incorporated and Gabai teaches wherein amount of information to be added is determined on the basis of an analysis result (Gabai, column 43, lines 44-50, ...*translating an ancient inscription a toy offers its user a historical commentary on the period and the occasion on which it was written and the subjects it concerns*..., There is inherently a determined amount of available additional information because the database stores available additional information in the database that is retrieved based upon the analysis.).

As per claim 64, claim 60 is incorporated and Gabai teaches where the information is prestored corresponding to a keyword (Gabai, column 46, lines 40-67, the

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toy listens for keywords in its analysis to understand the input and produce the appropriate response. Also, example II (columns 45-46) shows that the information is related to the input keywords.).

As per claim 66, claim 62 is incorporated and Gabai teaches wherein the information is information for prompting a target (Gabai, columns 45-46, Example II, teaches that information is added for prompting a target using voice, column 46, lines 1-5).

As per claim 67, Gabai teaches an information processing device for receiving inputted text, having an information changing unit for analyzing the inputted text to determine information to be added comprising the steps of (Gabai, column 43, lines 20-34, *...special scanner...* Further, Gabai, column 43, lines 3-19, *...It is preferred, in such cases, that a toy not merely translate but combine its translations with other types of content that is appropriate to the given situation...* Furthermore, column 43, lines 35-50 gives examples, one of which is that the user inputs a menu and then toy subsequently explains the cultural significance of the dishes.):

adding the additional information to the inputted text with a change processing unit (Gabai, column 43, lines 3-19, *...It is preferred, in such cases, that a toy not merely translate but combine its translations with other types of content that is appropriate to the given situation...* Furthermore, column 43, lines 35-50 gives examples, one of which is that the user inputs a menu and then toy subsequently explains the cultural

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significance of the dishes. Figs .14 and 70 show that the output can be processed and generated from the internal toy process or an external computer/server depending on the complexity of the input/operation.);

and an information reproducing device for converting and output from the information changing unit to voice (Gabai, column 53, lines 26-36, ... *Their response includes, but is not limited to sound (including voice)...*).

Gabai fails to specifically teach classifying the inputted text as one of a plurality of types of sentences, the plurality of types of sentence including a question and an explanation; selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence.

However, Papineni teaches classifying the inputted text as one of a plurality of types of sentences, the plurality of types of sentence including a question and an explanation (Papineni, column 15, the example shows input questions and explanations, see ...*how about the vanguard index...* (question), and ...*i want to buy one hundred shares...* (explanation).);

selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence (Papineni, column 15, shows selection of additional information related to the type of sentence through a confirmation, ...*confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...*); and

selecting additional information in the selected category (Papineni selects additional information by providing specific confirmations of the index or fund, *...confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)*...). The selected additional information is the specific amount and fund for the category of additional information (confirmation).).

Gabai and Papineni are analogous art because both deal with dialog interaction between a human and machine. Therefore, it would have been obvious to someone of ordinary skill in the art at the time of the invention to apply the confirmations/clarifications of Papineni with the base process of dialog interaction in Gabai because the result would have been predictable in providing a machine/user dialog interaction where the machine and user have a mutual understanding of the current dialog state. Therefore, it would have been obvious to someone of ordinary skill in the art at the time of the invention to combine Papineni with Gabai.

Claims 68, 69 are rejected for the same reasons as claims 61, 63.

As per claim 70, claim 67 is incorporated and Gabai teaches wherein the information changing unit comprises a memory device for storing the information corresponding to a keyword, extracts the keyword from the inputted text and selects the information stored into the memory device on the basis of the extracted keyword (Gabai, column 46, lines 40-67, the toy listens for keywords in its analysis to understand

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the input and produce the appropriate response. Also, example II (columns 45-46) shows that the information is related to the input keywords.).

Claim 72 is rejected for the same reasons as claims 66.

Claims 73-74 are rejected for similar reasons to claims 60 and 67. Claim 73 is the computer readable medium claim for the method of claim 60. The apparatus in claim 67 has been shown to be a computer based apparatus which inherently has to be programmed and executed from a computer-readable medium. Claims 74-75 are the terminal and server claims for the method and apparatus of claims 60 and 67 (See Papineni, column 5-6).

As per claim 75, Gabai teaches the server comprising a communication device for communicating with a terminal (Gabai, abstract, teaches that the toy can use cellular technology which is well known in the art to be able to independently process input as well as process the input through a server.); an information processing device for translating text received through the communication device from first language to second language (column 43, lines 20-34, the toy can read text for translation or speech synthesis. Gabai, column 43, lines 3-19, Figs. 58 A-B teach that the toy interprets the scanned information in a language not native to the user for the user's understanding.); an information changing unit for analyzing the text translated to the second language, determining information to be added on the basis of the analysis result

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comprising the steps of (Gabai, column 43, lines 3-19, ...*It is preferred, in such cases, that a toy not merely translate but combine its translations with other types of content that is appropriate to the given situation...* Gabai teaches the ability to read local or ancient languages, column 43, lines 20-34 where the scanner is an information analysis unit. Information to be added is appropriate to a given situation.);

adding the information to the text translated to the second language (Gabai, column 43, lines 3-19, ...*It is preferred, in such cases, that a toy not merely translate but combine its translations with other types of content that is appropriate to the given situation...* Furthermore, column 43, lines 35-50 gives examples, one of which is that the user inputs a menu and then toy subsequently explains the cultural significance of the dishes. Figs .14 and 70 show that the output can be processed and generated from the internal toy process or an external computer/server depending on the complexity of the input/operation.);

transmitting an output from information changing unit through the communication device (Gabai, column 53, lines 26-36, ...*Their response includes, but is not limited to sound (including voice)... Fig. 66, 8085).*

Gabai fails to specifically teach classifying the inputted text as one of a plurality of types of sentences, the plurality of types of sentence including a question and an explanation; selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence;

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and selecting additional information in the selected category and adding the information to the text.

However, Papineni teaches classifying the inputted text as one of a plurality of types of sentences, the plurality of types of sentence including a question and an explanation (Papineni, column 15, the example shows input questions and explanations, see *...how about the vanguard index...* (question), and *...i want to buy one hundred shares...* (explanation).);

selecting a category of additional information related to the type of sentence, the category being an expression which is suitable to the type of sentence (Papineni, column 15, shows selection of additional information related to the type of sentence through a confirmation, *...confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...*); and

selecting additional information in the selected category and adding the information to the text (Papineni selects additional information by providing specific confirmations of the index or fund, *...confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)...* The selected additional information is the specific amount and fund for the category of additional information (confirmation). This has been added to the fund name which is taken from the context taken from the inputted text and it output to the user for confirmation.).

Gabai and Papineni are analogous art because both deal with dialog interaction between a human and machine. Therefore, it would have been obvious to someone of ordinary skill in the art at the time of the invention to apply the confirmations/clarifications of Papineni with the base process of dialog interaction in Gabai because the result would have been predictable in providing a machine/user dialog interaction where the machine and user have a mutual understanding of the current dialog state. Therefore, it would have been obvious to someone of ordinary skill in the art at the time of the invention to combine Papineni with Gabai.

10. Claims 65 and 71 are rejected under 35 U.S.C. 103(a) as being unpatentable by Gabai et al. (US Patent #6773344 hereinafter Gabai) in view of Papineni et al. (US Patent #6246981) and further in view of Uwakubo. (US Patent #6513011).

As per claim 65, claim 62 is incorporated and Gabai and Papineni fail to specifically teach further comprising analyzing reaction time of a target for which the voice is output and determining the information on the basis of the analysis result with the information analysis unit.

However, Uwakubo teaches further comprising analyzing reaction time of a target for which the voice is output (Uwakubo, columns 7-8, lines 63-67 and 1-8, ...*a time period is clocked in some times, from a time when a reaction is presented to the*

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output unit 360 (to the user) to another time when the user starts action in response to the presented reaction...).

and determining the information on the basis of the analysis result with the information analysis unit (Uwakubo, column 8, lines 21-31, ...*generate reactions or suspends the generating of the reactions, based on instructions from the conversation manage unit 330...* A reaction is generated based upon the reaction time of the user.).

It would have been obvious to someone of ordinary skill in the art at the time the invention was made to combine Uwakubo with the Gabai and Papineni device because “prior devices can not follow changes of a length of a pause (timing) in a conversation” (Uwakubo, column 1, lines 38-42) The combination of Uwakubo with the Gabai and Papineni device would have been obvious to try because it improves smooth information transition and has a reasonable expectation of success.

Claim 71 is rejected for the same reasons as claim 65.

11. Claims 76-77 are rejected under 35 U.S.C. 103(a) as being unpatentable by Papineni et al. (US Patent #6246981) in view of McAllister et al. (US Patent #6385584)

As per claim 76, Papineni teaches the method comprising analyzing inputted text with an information analysis device to determine information to be added (column 3, lines 8-19, ...*A system for conversant interaction includes a recognizer for receiving and processing input information and outputting a recognized representation of the input*

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information. A dialog manager is coupled to the recognizer for receiving the recognized representation of the input information, the dialog manager having task-oriented forms for associating user input information therewith, the dialog manager being capable of selecting an applicable form from the task-oriented forms responsive to the input information...),

adding the additional information to the inputted text with a change processing device, and outputting the inputted text which the information is added with an information reproducing device (Papineni, column 15, selects additional information by providing specific confirmations of the index or fund, ...*confirming purchase of one hundred Shares of vanguard index trust total stock market institutional shares. please say yes or no (fund name from context)*... The selected additional information is the specific amount and fund for the category of additional information (confirmation). This has been added to the fund name which is taken from the context taken from the inputted text and it output to the user for confirmation.).

Papineni fails to teach generating a random number; and selecting additional information that corresponds to the random numbers.

However, McAllister teaches generating a random number (McAllister, column 4, lines 32-44);

and selecting additional information that corresponds to the random numbers (McAllister, column 4, lines 32-44, the random numbers are scaled to the number of voice message variations available for a particular prompt);

McAllister and Papineni are analogous art because both pertain to language generation. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the confirmation responses (as taught by Papineni, yes or no confirmations, column 15) with the random wording variation (as taught by McAllister) so that "random wording variations are included in the prompts as would be characteristic of a human operator." (McAllister, Column 2, lines 28-39)

Claim 77 is rejected for the same reasons as claim 76 for having similar limitations. The additional limitation of a system is taught by Papineni where Papineni further provides system and computer readable medium type embodiments (see Papineni columns 5-6).

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to PTO-892, Notice of References Cited for a listing of analogous art.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREG A. BORSETTI whose telephone number is (571)270-3885, (FAX: 571-270-4885). The examiner can normally be reached on Monday - Friday (8am - 5pm Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHMOND DORVIL can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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